



**STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WASTE MANAGEMENT ADMINISTRATION
2500 BROENING HIGHWAY. BALTIMORE, MARYLAND 21224**

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3.6.00

TYPE OF INSPECTION: COMPLIANCE EVALUATION INSPECTION

FACILITY: MID-ATLANTIC FINISHING INC.,

EPA ID #: MDD985386143

ADDRESS: 4656 ADDISON ROAD
CAPITAL HEIGHTS MD 29743

DATE OF INSPECTION: FEBRUARY 10, 2000

DATE: MARCH 2, 2000

INSPECTOR: O. TRENTON LONDON

FACILITY REPRESENTATIVE(S): MR. B.J. MASON & MR. JOHN O'BRIAN

REPORT OF OBSERVATIONS

PURPOSE: To conduct a Compliance Evaluation Inspection on this facility.

OWNER/OPERATOR: Mr. B. J. Mason

FACILITY REPRESENTATIVES: Mr. B. J. Mason and Mr. John O'Brian

FACILITY DESCRIPTION: The facility is an oblong concrete block building with two floors. The first floor does small electroplating and has the administrative office and the basement has the large electroplating tanks. B. J. Mason formed the company in 1976. The plating operations done are electrolyses nickel plate, silver plating, and gold plating, tin plating, zinc plating, anodize, chemical film, electrolytic nickel and copper plating.

COMMENTS: This facility uses a wide array of tools to maintain a standard of excellence in quality. The staff is knowledgeable in SPC and control charts are used to augment their ISO 9002 quality system. A waste minimization program is enforced and is successful at this time. The work area is clean and all employees have the required safety equipment. The super sacks are made from schedule 40 plastic and are double contained.

HAZARDOUS WASTE GENERATION: Hazardous waste is generated from the process used to do the electroplating. D007, F006, F008 and cyanide, waste water treatment sludge from the electroplating process. The State of Delaware accepts the ion exchange resins and the transporter is S-J Transportation Company and the receiving facility is Hazardous Material Management Team, Welmington Delaware. In 1999 the receiving facility was Stablex Canada Inc., in Quebec.

WASTE MANAGEMENT: Hazardous waste is placed in one cubic yard super sacks, and removed within the 90-day limit. Inspection logs are maintained and current. The logs are kept in the Environmental Compliance

Manager's office. Inspections are done on a weekly basis. Cyanide in waste stream is recycled through ion exchange. There are three ion exchangers, one online, one as backup and the other regenerated.

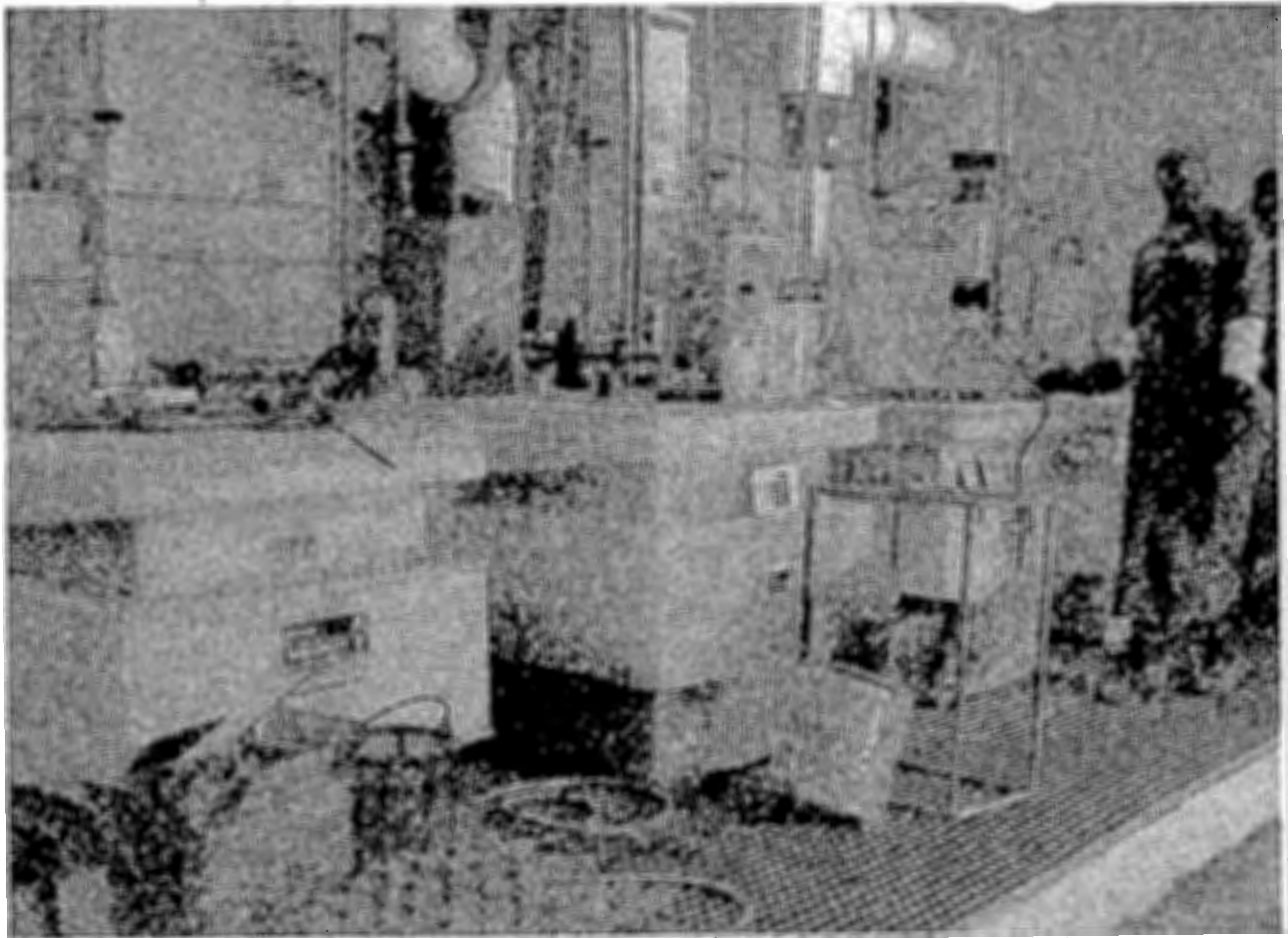
HAZARDOUS WASTE STORAGE: Waste is stored in a designated area on the lower level. Access for pick up is by a loading dock door. The waste is in plastic drums and in super packs.

RECORD KEEPING: On reviewing the records I found them all in order and for the last three years.

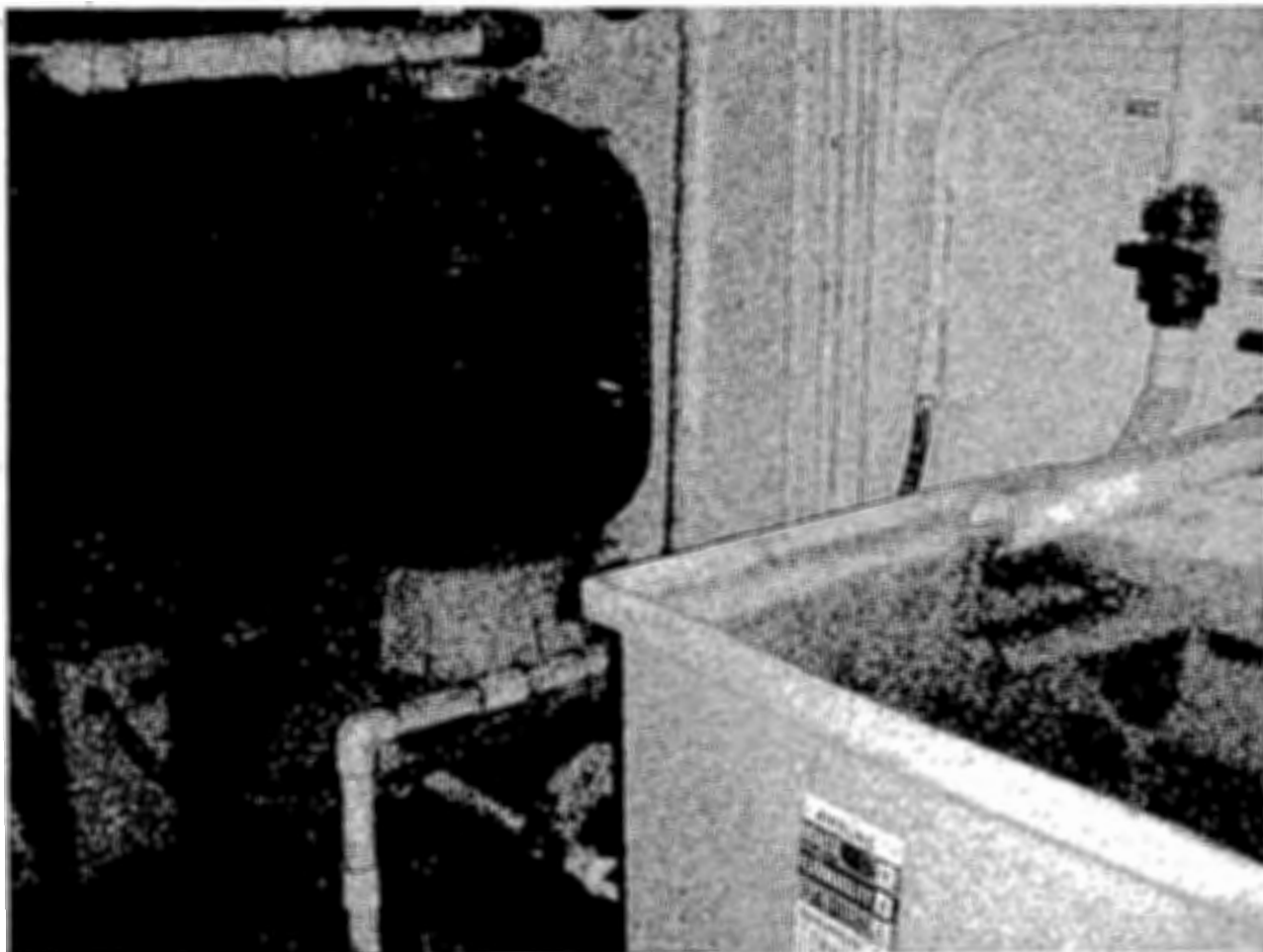
ENFORCEMENT ACTION: No action necessary.



Electroplating process tanks.



Electroplating rünseing tanks, placards are posted.



Nitric acid recycling tank with settling tank in the foreground.



Waste, non-hazardous, and hazardous and the ion exchange cylinders.

O. Trenton London
Environmental Engineer
Hazardous Waste Enforcement & Compliance
Waste Management Division
Maryland Department of the Environment



STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WASTE MANAGEMENT ADMINISTRATION
HAZARDOUS WASTE PROGRAM
2500 BROENING HIGHWAY
BALTIMORE, MARYLAND 21224
(410) 631-3400

INSPECTOR: O. Trenton London

DATE: February 10, 2000

GENERATOR CHECKLIST

FACILITY NAME: Mid-Atlantic Finishing Inc.,

ADDRESS: 4656 Addison Road. Capital Heights MD 20743

FACILITY REPRESENTATIVE: Mr. John O'Brian

TELEPHONE No.: (301) 322-2233

DESCRIPTION OF WORK ACTIVITY: Electroplating

EPA IDENTIFICATION NUMBER? M-D-D-9-8-5-3-8-6-1-4-3

Section A - Hazardous Waste Determination

1. Does facility generate hazardous waste(s) as defined in COMAR
26.13.02.10 + .19?.....XYes No
If yes, under which category is the waste?

☐ Ignitable ☒ Corrosive ☒ Reactive ☒ TC Toxic ☒ RCRA Listed

2. Describe the amount of waste generated (day, week or month).

Section B - Manifest (26.13.03.04)

1. Does generator ship waste off-site?..... X Yes No
(If no, do not complete section B and C)
2. Does generator use manifest?..... X Yes No
If no, explain:
3. Does generator retain copies of manifest?.....XYes No N/A
If yes, does the manifest include the following information?
(26.13.03.04C)
-Manifest document number?.....,XYes No N/A

- Generator's name, mailing address & telephone number?.....X Yes ___ No ___ N
- Generator's EPA I.D. number?.....X Yes ___ No ___ N
- Transporter name(s) & EPA I.D. number(s)?.....X Yes ___ No ___ N/A
- Designated TSDF name, address, & EPA I.D. number?.....X Yes ___ No ___ N/A
- Alternate TSDF name, address, & EPA I.D. number?.....X Yes ___ No ___ N/A
- Instructions to return waste to generator if undeliverable?.....X Yes ___ No ___ N/A
- Description of the waste required by DOT regulations?.....X Yes ___ No ___ N/A
- Quantity of each hazardous waste by units of weight or volume?.....X Yes ___ No ___ N/A
- Total number & types of containers given to transporter?.....X Yes ___ No ___ N/A
- Is the proper certification noted on each manifest?.....X Yes ___ No ___ N/A
- 4. Has the generator signed & dated manifests (26.13.03.04E)?.....X Yes ___ No ___ N/A
- 5. Did the generator obtain initial transporter's signature and date of acceptance?.....X Yes ___ No ___ N
- 6. Do returned copies of manifest include facility owner/operation signature and date of acceptance?.....X Yes ___ No ___ N/A
- 7. Have manifests been retained for three years?.....X Yes ___ No ___ N/A

Section C - Pre-Transport Requirements (26.13.03.05) N/A

- 1. Does generator package wastes in accordance with DOT requirements?.....X Yes ___ No
- 2. Are containers in good condition?.....X Yes ___ No
If no, explain:
- 3. Is the date that accumulation time began clearly marked and visible for inspection on each container?.....X Yes ___ No
- 4. Is period of accumulation less than 90 days?.....X Yes ___ No
-If no, is amount accumulated less than 500 kg or less than 1 kg of acute hazardous waste?.....Yes ___ No ___ N/A
-If no, explain:
- 5. Is "SATELLITE ACCUMULATION" no more than 55 gallons of hazardous waste or 1 quart of acutely hazardous waste?.....Yes ___ No X N/A
- 6. Are containers in good condition, closed, and clearly marked "HAZARDOUS WASTE"?.....Yes ___ No X N/A

Section D - Recordkeeping and Reporting (26.13.03.06)

- 1. Does the generator keep the following reports for three years?
 - Manifests & signed copies from designated facilities?.....X Yes ___ No
 - Annual Reports?.....X Yes ___ No
 - Exception Reports?.....Yes ___ No X N/A
 - Waste Analyses?.....X Yes ___ No ___ N/A

Section E - Special Conditions (26.13.03.07)

- 1. Has the generator received from or transported to a foreign country any hazardous waste(s)?.....Yes ___ No
-If yes, has a notice been filed with MDE and EPA?.....Yes ___ No ___ N/A
-Is this waste manifested & signed by a foreign consignee?.....Yes ___ No ___ N/A
-If generator transported wastes out of the county, has confirmation of delivery been received?.....Yes ___ No ___ N/A

Section F - General Requirements (26.13.03.05E)

Personnel Training (26.13.05.02G)

1. Does the owner/operator maintain personnel training records?.....X..Yes__No
If yes, do they include:
 - Job title & written job description of each position?.....X..Yes__No
 - Description of type and amount of training?.....X..Yes__No
 - Records of training given to facility personnel?.....X..Yes__No

Preparedness and Prevention (26.13.05.03)

1. Is there evidence of fire, explosion, or contamination of the environment?.....Yes X__No
2. Is the facility equipped with:
 - a) Internal communication or alarm system?.....X..Yes__No
 - b) Telephone or two-way radio to call emergency response personnel?.....X..Yes__No
 - c) Portable fire extinguishers, fire control equipment, spill control equipment, & decontamination equipment?.....X..Yes__No
 - d) Water of adequate volume for hoses, sprinklers, or water spray system?.....X..Yes__No
3. Is there sufficient aisle space to allow unobstructed movement of personnel and equipment in an emergency?.....X..Yes__No
4. Has the owner/operator made arrangements with the local authorities to familiarize them with characteristics of the facility?.....X..Yes__No
5. In the case that more than one police or fire department might respond, is there a designated primary authority?.....X..Yes__No
6. If State or local authorities decline to enter into these arrangements, has this been documented in the operating log?.....Yes__No X N/A

Contingency Plan and Emergency Procedures (26.13.05.04)

1. Is a contingency plan maintained at the facility?.....X..Yes__No
If yes, does contingency plan include:
 - Arrangements with local emergency response organizations?.....X..Yes__No
 - Emergency coordinators' names, phone numbers, and addresses?.....X..Yes__No
 - List of all emergency equipment at the facility and description of equipment?.....X..Yes__No
 - Evacuation plan for facility personnel.....X..Yes__No
2. Is there an emergency coordinator on site or on call at all times?.....X..Yes__No
3. Has a copy of the contingency plan been submitted to local or State agencies that may be asked to provide emergency services?.....X..Yes__No
4. Has the plan ever been implemented?.....Yes X__No
 - If so, was the plan appropriate?.....Yes__No__N/A
 - If the plan was not appropriate, has it been amended?.....Yes__No__N/A
 - If the plan was implemented, was the incident recorded

in the operating log and was a written report submitted to MDE?.....Yes__No__N/A

Use and Management of Containers (26.13.05.09)

1. Are containers in good condition?.....X..Yes__No
2. Is container made of a material that will not react with the waste which it stores?.....X..Yes__No__N/A
3. Are containers always closed when holding hazardous waste?.....XYes__No
4. Are containers handled so that they will not be opened,
handled, or stored in a manner which may rupture them or cause them to leak?.....X..Yes__No
5. Does owner/operator inspect containers at least weekly for leaks and deterioration?.....X..Yes__No
6. Do container storage areas have adequate containment systems?.....X..Yes__No
7. Are containers holding ignitable and reactive waste
located at least 15m (50 ft) from facility property lines?.....X_Yes__No__N/A
8. Are incompatible wastes or materials placed in the same containers?....._YesX_No__N/A
9. Are hazardous wastes placed in washed, clean
containers when they previously held incompatible waste?.....X_Yes__No__N/A
10. Are incompatible hazardous wastes separated from each
other by a berm, dike, wall, or other device?.....X.Yes__No__N/A

Annual Reports (26.13.03.06B)

1. Does the facility submit annual reports to MDE?.....X..Yes__No
- If yes, do reports contain the following information?
 - a) Name, address and EPA I.D. number of facility?.....X.Yes__No
 - b) Date and year covered by report?.....X.Yes__No
 - c) Description/quantity of hazardous waste?.....X.Yes__No
 - d) Description of efforts to reduce volume/toxicity
of waste generated, and actual comparisons with
previous year?.....X.Yes__No
 - e) Certification signed by owner/operator?.....XYes__No

Section G - Other Checklists Completed: _____X N/A

- ___ Tanks
- ___ Transporter
- ___ Land Disposal Restrictions
- ___ TSD Facility
- ___ Surface Impoundment
- ___ Waste Pile
- ___ Land Treatment
- ___ Landfill
- ___ Incinerator
- ___ Thermal Treatment
- ___ Groundwater Monitoring

Section H - Additional Comments



4656 Addison Road • Capitol Heights, MD 20743 • 301/322-2233 • FAX 301/773-5841
Toll-free: 800/929-2556 • E-mail: maf.inc@maf.com • Website: <http://www.maf.com>

Waste Minimization Program

Introduction:

Mid Atlantic Finishing Inc. has several measures in place to reduce the amount of hazardous waste generated where feasible. This program will state specifically what has been done in the past as well as the goals set for today and the future.

Scope:

Areas that are involved are as follows:

- a) Electroplating Solutions
- b) Drag Out Tanks
- c) Rinse Tanks
- d) Metal Hydroxide from Precipitation
- e) Ion Exchange

Minimization Procedures:

Electroplating Solutions: All solutions purchased are purchased with all environmental hazards taken into consideration. Any solution currently used that could be substituted by a less environmentally hazardous solution will be substituted where practical and economically feasible.

Drag Out Tanks: Drag out tanks are used on the Silver & Copper tanks. The drag out is used to replenish the plating tank levels.

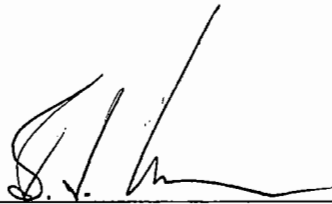
Rinse Tanks: All rinse tanks are flow restricted, and at *NO* time are hoses or direct water flow to go into the rinse tanks. The less water used, the less water to treat, therefore less hazardous waste generation.

Metal Hydroxide: All metal hydroxide is processed through drying, thus reducing its volume by at least 60 to 80 % . Once dried, the material is sent to a recycler and is processed and returned to commerce as a useable product.

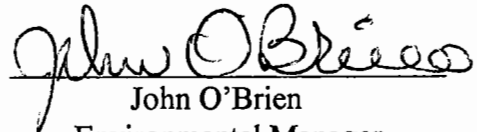
Ion Exchange: Where “ *environmentally hazardous materials*” have to be used, the rinse tanks are recycled through ion exchange modules. The rinse water is cleaned and returned to the rinse tanks. (i . e . Cyanides and Hexavalent Chrome) The loaded module is sent out for regeneration and the regenerate is recycled.

Closing;

At this point, all waste generated is recycled, none is landfilled. Our water usage is at lowest, any further cuts in water would affect the performance of our production department by increasing the reject rate. It is our understanding that Mid Atlantic Finishing Inc., has implemented its waste minimization program to its fullest extent possible. If at any time, other opportunities arise to minimize our waste generation, Mid Atlantic Finishing Inc. will certainly research those opportunities.



B.J. Mason
President



John O'Brien
Environmental Manager



Yahoo! Maps - Driving Directions

New Location

Starting From:	Arriving At:	Distance:	Approximate Travel Time:
2500 Broening Highway Baltimore, MD 21224	4656 Addison Road, Capitol Heights, MD 20743	42.2 miles	52 mins

Directions	miles
1. Start out going Northwest on BROENING HWY by turning left.	0.4
2. Turn SLIGHT RIGHT onto ramp.	0.2
3. Merge onto KEITH AVE.	0.7
4. Take the I-95 ramp.	0.2
5. Keep LEFT at the fork in the ramp.	0.3
6. Merge onto I-95 S.	30.0
7. Take I-95 S/CAPITAL BELTWAY/I-495 S.	3.5
8. Take the BALTIMORE-WASHINGTON PARKWAY exit	0.4
9. Merge onto MD-295 S.	5.9
10. Take the exit towards EASTERN AVE/ADDISON RD/AQUATIC GARDENS.	0.1
11. Stay straight to go onto KENILWORTH AVE.	0.1
12. Turn LEFT onto EASTERN AVE NE.	0.2
13. Turn LEFT onto ADDISON RD.	0.3

